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# RPPR Final Report

as of 30-Jan-2019

Agency Code:

Proposal Number: 73567CHCF

Agreement Number: W911NF-18-1-0357

**INVESTIGATOR(S):**

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**Phone Number:** 4102936622

**Principal:** Y

Organization: **Gordon Research Conferences, Inc.**

Address: 512 Liberty Lane, West Kingston, RI 028921502

Country: USA

DUNS Number: 075712877

EIN: 050300482

**Report Date:** 14-Apr-2019

Date Received: 24-Jan-2019

**Final Report** for Period Beginning 15-Jul-2018 and Ending 14-Jan-2019

**Title:** 2018 Ionic Liquids Gordon Research Conference

**Begin Performance Period:** 15-Jul-2018

**End Performance Period:** 14-Jan-2019

**Report Term:** 0-Other

Submitted By: Nancy Ryan Gray

Email: grants@grc.org

Phone: (401) 360-1505

**Distribution Statement:** 1-Approved for public release; distribution is unlimited.

**STEM Degrees:**

**STEM Participants:**

**Major Goals:** Organizing a Gordon Research Conference involves extensive communication with the research community to identify important issues at the frontiers of the field, and solicit suggestions for speakers and discussion leaders to participate in the conference. The Chair then contacts prospective participants to invite them to talk and discuss the nature of their contributions. The Chair then communicates the topics and aims of the conference through web pages, contact with relevant international professional bodies and email to members of the research community around the world to encourage applications for participation in the conference. The Chair is then responsible for assessing and accepting the applications and fielding a host of questions both concerning the technical content and practical aspects of conference participation.

**Accomplishments:** Ionic liquids have been known for over a century, but they spent much of that time in relative scientific obscurity. Yet, beginning around 1998 interest in these unorthodox salts exploded, and in the intervening period some 85,000 papers have been published on the topic – a truly remarkable, near-unprecedented rate of development. During these past twenty years we have accumulated an impressive store of data pertaining to ionic liquids, and we have begun to use them on large scales in ‘real-world’ applications. Even so, many with experience in the field will attest that what is understood about them is still dwarfed by what is not yet understood. Likewise, the degree to which they have been harnessed in practical applications continues to be dwarfed by their potential for use in others. To move beyond this ‘here and now’ towards tomorrow, it is vital to appreciate that ionic liquids are not a technological end unto themselves, but rather an enabling technology of truly remarkable scope.

During the 2018 meeting, we addressed challenges the field faces moving forward, and we aimed to help create a vision for meeting them. We discussed critical issues such as how we can harness ILs to improve our prospects for a future powered by greener energy – not only by enabling the more tractable manipulation of biomaterials, but in helping to reduce the environmental impact of hydrocarbon fuels. We asked – and attempted to answer – such questions as whether ionic liquids can make analyses more sensitive, polymers more useful, and working in environmental extremes more readily accomplished. We asked whether physicochemical and computational studies of ionic liquids not only help us to better understand their properties from a conceptual standpoint, but whether they can help us design better ionic liquids for uses of interest. We also asked whether we have ‘met a brick wall’ in developing new IL ions – especially anions. The talks at this meeting not only answered questions currently being asked but prompted those present to ask new ones. It is in those new questions, and the ideas to which they give birth that the future of the field lies.

## **RPPR Final Report**

as of 30-Jan-2019

**Training Opportunities:** Speakers, discussion leaders, poster presenters and attendees simultaneously contributed to and benefited from the collective skills and experience shared throughout the conference. The funding provided was invaluable to the success of the Conference.

**Results Dissemination:** The final program has been posted on the GRC website.

**Honors and Awards:** Nothing to Report

**Protocol Activity Status:**

**Technology Transfer:** Nothing to Report



## GORDON RESEARCH CONFERENCES

### FINAL PROGRESS REPORT

Army Research Office  
Ionic Liquids Gordon Research Conference

Grant Number W911NF-18-1-0357

August 12-17, 2018

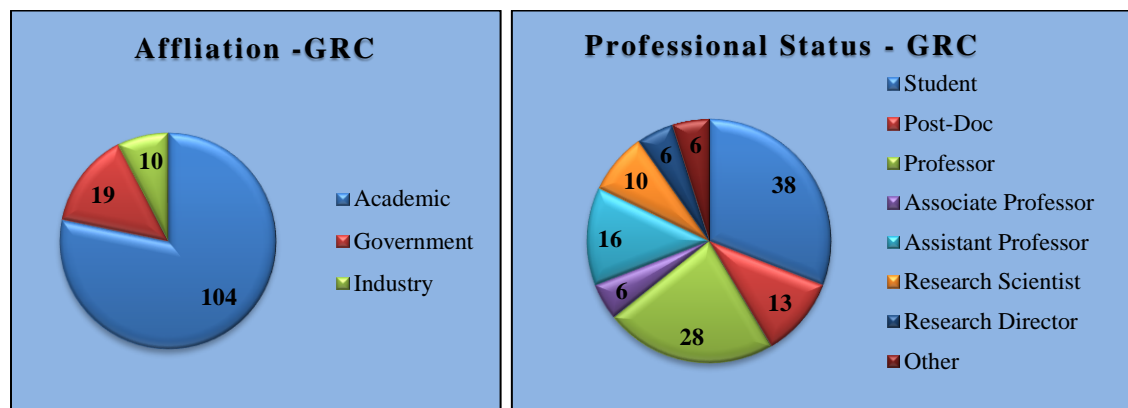
#### Operational Summary

The Gordon Research Conference (GRC) on Ionic Liquids was held at the Grand Summit Hotel at Sunday River in Newry, Maine from August 12-17, 2018. The meeting covered a variety of scientific topics and the content presented was highly rated by participants.



#### Conference Participants

The Conference was well-attended with 123 participants. Scientists from academia represented 85% of the participants while attendees from government accounted for 7% and those from industry totaled 8%. The meeting also attracted a strong mix of young investigators and senior scientists. Students and post-docs accounted for 42% of all attendees. Approximately 26% of the participants at the 2018 meeting were women.



#### Conference Program

Ionic liquids have been known for over a century, but they spent much of that time in relative scientific obscurity. Yet, beginning around 1998 interest in these unorthodox salts exploded, and in the intervening period some 85,000 papers have been published on the topic – a truly remarkable, near-unprecedented rate of development. During these past twenty years we have accumulated an impressive store of data pertaining to ionic liquids, and we have begun to use them on large scales in ‘real-world’ applications. Even so, many with experience in the field will attest that what is understood about them is still dwarfed by what is not yet understood. Likewise, the degree to which they have been harnessed in practical applications continues to be dwarfed by their potential for use in others. To move beyond this ‘here and now’ towards tomorrow, it is vital to appreciate that ionic liquids are not a technological end unto themselves, but rather an enabling technology of truly remarkable scope.

During the 2018 meeting, we addressed challenges the field faces moving forward, and we aimed to help create a vision for meeting them. We discussed critical issues such as how we can harness ILs to improve our prospects for a future powered by greener energy – not only by enabling the more tractable manipulation of biomaterials, but in helping to reduce the environmental impact of hydrocarbon fuels. We asked – and attempted to answer – such questions as whether ionic liquids can make analyses more sensitive, polymers more useful, and working in environmental extremes more readily accomplished. We asked whether physicochemical and computational studies of ionic liquids not only help us to better understand their properties from a conceptual standpoint, but whether they can help us design better ionic liquids for uses of interest. We also asked whether we have ‘met a brick wall’ in developing new IL ions – especially anions. The talks at this meeting not only answered questions currently being asked but prompted those present to ask new ones. It is in those new questions, and the ideas to which they give birth that the future of the field lies.

#### Conference Budget

Funding provided by the Army Research Office supported partial registration for 3 postdocs, 13 graduate students, 10 professors, 3 associate professors, 1 other, 4 assistant professors and 2 research scientists at the GRC.

**Conference Feedback**

Participants had an opportunity to provide feedback at the end of the Conference. The feedback collected from the meeting was extremely positive. Evaluations included numerous positive remarks regarding the interactions with experienced investigators, the breadth of topics and the networking opportunities during the poster sessions.

GRC would like to thank the Army Research Office for its continued support of the meetings. The contributions received have been critical to the success of the conferences and are having a measurable impact in advancing the frontiers of science worldwide.

Dr. Jim Davis, GRC Chair  
University of South Alabama

Dr. Paul Trulove, GRC Co-Chair  
United States Naval Academy

Dr. Nancy Ryan Gray  
President and Chief Executive Officer  
Gordon Research Conferences

**Ionic Liquids**  
**Gordon Research Conference**  
**Ionic Liquids as a Critical Enabling Technology for Meeting Current and Future Needs in Energy, Materials,**  
**and Living Systems**  
August 12 - 17, 2018

Chair- Jim Davis  
Vice Chair- Paul C. Trulove

Grand Summit Hotel at Sunday River  
97 Summit Road  
Newry, ME, US

**Conference Program**

**Sunday**

2:00 pm - 9:00 pm	Arrival and Check-in
6:00 pm - 7:00 pm	Dinner
7:30 pm - 7:40 pm	Introductory Comments by GRC Site Staff / Welcome from the GRC Chair
7:40 pm - 9:30 pm	All About Synthesis: Making Ionic Liquids and Making Other Materials in Them Discussion Leader: Jamie Ferguson (Emory & Henry College, USA)
7:40 pm - 7:45 pm	Introduction by Discussion Leader
7:45 pm - 8:25 pm	Anja Mudring (University of Stockholm, Sweden) "Making Ionic Liquids and Using Them as Smart Materials"
8:25 pm - 8:35 pm	Discussion
8:35 pm - 9:15 pm	Tamar Greaves (RMIT University, Australia) "High Throughput and Machine Learning Approaches in the Characterization of Neat Ionic Liquids and Their Mixtures"
9:15 pm - 9:30 pm	Discussion

**Monday**

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Ionic Liquids as a Key Element of Batteries and Other Energy Applications Discussion Leader: Hugh De Long (U.S. Army Research Office, USA)
9:00 am - 9:05 am	Introduction by Discussion Leader
9:05 am - 9:45 am	Doron Aurbach (Bar-Ilan University, Israel) "On the Use of Ionic Liquids for High Energy Density Batteries and High Voltage Supercapacitors"
9:45 am - 10:00 am	Discussion
10:00 am - 10:30 am	Coffee Break
10:30 am - 11:10 am	Daniel Buttry (Arizona State University, USA) "Electrochemistry in Ionic Liquids for Next Generation Energy Applications"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	Oleg Borodin (U.S. Army Research Laboratory, USA) "Contrasting Bulk and Interfacial Behavior of the Solvent-in-Salt Electrolytes and Room Temperature Ionic Liquids from Molecular Modeling"
12:10 pm - 12:30 pm	Discussion
12:30 pm - 1:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner

7:30 pm - 9:30 pm	The Future of Ionic Liquid Technologies Discussion Leader: William Reichert (University of South Alabama, USA)
7:30 pm - 8:10 pm	Rui Qiao (Virginia Tech, USA) "Physics and Applications of Nanoconfined Ionic Liquids in Electrochemical Systems"
8:10 pm - 8:30 pm	Discussion
8:30 pm - 9:10 pm	Rasmus Fehrmann (Technical University of Denmark, Denmark) "Ionic Liquids in Catalysis and Gas Separation: Industrial Use and Case Stories"
9:10 pm - 9:30 pm	Discussion
<b>Tuesday</b>	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Ionomers: Putting Ionic Liquids into Polymers, and Making Ionic Liquids out of Polymers Discussion Leader: Gary Baker (University of Missouri, USA)
9:00 am - 9:05 am	Introduction by Discussion Leader
9:05 am - 9:35 am	Timothy Lodge (University of Minnesota, USA) "Stimuli-Responsive Block Polymer/Ionic Liquid Systems"
9:35 am - 9:50 am	Discussion
9:50 am - 10:20 am	Alexei Sokolov (University of Tennessee, Knoxville, USA) "Controlling Dynamics and Conductivity in Polymerized Ionic Liquids"
10:20 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break
11:00 am - 11:30 am	Matthew Panzer (Tufts University, USA) "Fully-Zwitterionic Copolymers for Ionogel Battery Electrolytes"
11:30 am - 11:45 am	Discussion
11:45 am - 12:15 pm	Rhett Smith (Clemson University, USA) "Tetraarylphosphonium Ionic Liquids and Their Incorporation into Ionomers"
12:15 pm - 12:30 pm	Discussion
12:30 pm - 1:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
7:30 pm - 9:30 pm	Quo Vadis: Ions for Ionic Liquids from Inexpensive or Renewable Sources Discussion Leader: Scott Handy (Middle Tennessee State University, USA)
7:30 pm - 8:10 pm	Jason Hallett (Imperial College London, United Kingdom) "Ionic Liquids from Inexpensive and Readily Available Materials"
8:10 pm - 8:30 pm	Discussion
8:30 pm - 8:50 pm	Roland Kalb (Proionic GmbH, Austria) "Ionic Liquids in Industrial Settings"
8:50 pm - 9:00 pm	Discussion
9:00 pm - 9:20 pm	Peter Von Czarnecki (IoLiTec - Ionic Liquids Technologies, USA) "The Influence of Design and Purity on the Physical-Chemical Properties of Ionic Liquids"
9:20 pm - 9:30 pm	Discussion
<b>Wednesday</b>	
7:30 am - 8:30 am	Breakfast

8:30 am - 9:00 am	Group Photo
9:00 am - 12:30 pm	Ionic Liquids in the Manipulation of Naturally Occurring Materials Discussion Leader: Robin Rogers (The University of Alabama, USA)
9:00 am - 9:05 am	Introduction by Discussion Leader
9:05 am - 9:45 am	Luke Haverhals (Bradley University, USA) "Plant-Based Plastics"
9:45 am - 10:00 am	Discussion
10:00 am - 10:30 am	Coffee Break
10:30 am - 11:10 am	Chieu Tran (Marquette University, USA) "Behavior of Natural Products in Ionic Liquids"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	Gabriela Gurau (525 Solutions, Inc., USA) "Commercialization of Ionic Liquids as Solvents for Natural Materials Processing"
12:10 pm - 12:30 pm	Discussion
12:30 pm - 1:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
7:00 pm - 7:30 pm	Business Meeting Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair
7:30 pm - 9:30 pm	Advancing Analytic Technologies Through Ionic Liquids Discussion Leader: Jared Anderson (Iowa State University, USA)
7:30 pm - 7:35 pm	Introduction by Discussion Leader
7:35 pm - 8:15 pm	Scott Shaw (University of Iowa, USA) "Near-Surface and Extended Structures of Ionic Liquids"
8:15 pm - 8:35 pm	Discussion
8:35 pm - 9:15 pm	Burcu Gurkan (Case Western Reserve University, USA) "Structuring of Ionic Liquids Around Small Charged Ions and Near Electrodes"
9:15 pm - 9:30 pm	Discussion
<b>Thursday</b>	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	What Computation, Spectroscopy and Physicochemical Studies Tell Us About How to Make Better Ionic Liquids Discussion Leader: Stephen Paddison (University of Tennessee, USA)
9:00 am - 9:05 am	Introduction by Discussion Leader
9:05 am - 9:45 am	Patricia Hunt (Imperial College London, United Kingdom) "Ab Initio Modeling in the Design of Ionic Liquids"
9:45 am - 10:00 am	Discussion
10:00 am - 10:30 am	Coffee Break
10:30 am - 11:10 am	Olga Russina (Sapienza University of Rome, Italy) "Microscopic Features Affecting Mesoscopic Organization"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	Jindal Shah (Oklahoma State University, USA) "Modulating Self-Assembly in Pure and Mixtures of Ionic Liquids"
12:10 pm - 12:30 pm	Discussion
12:30 pm - 1:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 5:30 pm	Poster Session

5:30 pm - 7:30 pm	Under Duress: Ionic Liquids and Molten Salts for Utilization in Extreme Conditions Discussion Leader: Allan East (University of Regina, Canada)
5:30 pm - 5:35 pm	Introduction by Discussion Leader
5:35 pm - 6:00 pm	Kevin West (University of South Alabama, USA) "Thermodynamics and Thermophysical Properties of Thermally Robust Ionic Liquids and Their Mixtures"
6:00 pm - 6:15 pm	Discussion
6:15 pm - 6:30 pm	Paula Berton (University of Calgary, Canada) "Ionic Liquids: 'Greening' the Oil Sands Extraction Process"
6:30 pm - 6:40 pm	Discussion
6:40 pm - 6:55 pm	David Durkin (United States Naval Academy, USA) "Preferential Leaching of Metals During Ionic Liquid Processing of Nanoparticle Biopolymer Systems"
6:55 pm - 7:05 pm	Discussion
7:05 pm - 7:20 pm	Jesse McDaniel (Georgia Institute of Technology, USA) "Collective Processes in Organic Electrolytes: From Dilute Solutions to the Ionic Liquid Limit"
7:20 pm - 7:30 pm	Discussion
8:00 pm - 9:00 pm	Dinner
<b>Friday</b>	
7:30 am - 8:30 am	Breakfast
9:00 am	Departure

#### Contributors



Gordon Research  
Conferences  
*Frontiers of Science*



Molecular Systems  
Design & Engineering



CRYSTAL  
GROWTH  
& DESIGN



University of South Alabama - Office of Research and Economic Development



**Ionic Liquids (2018)**

<b>Name</b>	<b>Organization</b>	<b>Participation</b>
Arnold, Corey	University of California - Los Angeles	Poster Presenter
Basson, Michael	Nature Medicine	Attendee
Bonato, Paolo	Harvard Medical School	Speaker
Cai, Zhiming	National Genitourinary Cancer Center	Speaker
Chang, Anthony	CHOC Children's	Speaker
Chen, Hao	Biofourmis	Poster Presenter
Chen, Fei	Southern University of Science and Technology	Attendee
Chen, Jun	Fuzhou University	Attendee
Chen, Jasmine	Catic Wellness Group, Shenzhen, China	Attendee
Chu, Maggie	Hong Kong Science and Technology Parks Corporation	Attendee
Clifton, David A.	University of Oxford	Speaker
Cui, Xiaoyu	Northeastern University	Attendee
Cui, Xingran	Southeast University	Poster Presenter
Deen, Jamal	McMaster University	Speaker
DeMazumder, Deeptankar	University of Cincinnati	Poster Presenter
Ding, Xiaorong	The University of Oxford	Attendee
Fan, Lei	City University of Hong Kong	Attendee
Fotiadis, Dimitrios	University of Ioannina	Speaker
Gu, Zhongze	Southeast University	Discussion Leader
Guan, Zhangyan	City University of Hong Kong	Attendee
Han, Xiongqi	City University of Hong Kong	Attendee
Hangjie, Mo	City University of Hong Kong	Attendee
He, Bin	Carnegie Mellon University	Speaker
Heldt, Thomas	Massachusetts Institute of Technology	Speaker
Ho, Joshua WK	Victor Chang Cardiac Research Institute	Poster Presenter
Ji, Nan	City University of Hong Kong	Attendee
Karlen, Walter	ETH Zurich	Speaker
Kwon, Hyuksang	Gwangju Institute of Science and Technology	Attendee
Lai, King Wai Chiu	City University of Hong Kong	Attendee
Laine, Andrew F	Columbia University	Discussion Leader
Li, Wenyan	University of California, Los Angeles	Poster Presenter
Li, Jiayun	UCLA Medical Imaging Informatics	Poster Presenter
Li, Ye	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	Poster Presenter
Lin, Zihong	City University of Hong Kong	Attendee
Lin, Zhuowen	Southern University of Science and Technology	Attendee
Liu, Jing	The Chinese University of Hong Kong	Speaker
Liu, Yan	University of Chinese Academy of Sciences	Speaker
Lo, Chu-Pin	Providence University	Attendee
Lovell, Nigel	UNSW Sydney	Discussion Leader
Lu, Zuhong	State Key Laboratory of Bioelectronics, Southeast	

	University	Speaker
Luo, Tao	City University of Hong Kong	Attendee
Magjarevic, Ratko	University of Zagreb	Chair
Meng, Max Q.-H.	The Chinese University of Hong Kong	Discussion Leader
Molina, Alvin Greg L	The Medical City	Attendee
Nelson, Bradley J.	ETH Zurich	Speaker
Nie, Shuming	University of Illinois at Urbana-Champaign	Discussion Leader
Niu, Hongliang	Huawei Technologies Co., Ltd.	Speaker
Niu, Xinrui	City University of Hong Kong	Poster Presenter
Noble, Alison	University of Oxford	Speaker
Ottersen, Ole Petter	Karolinska Institutet	Speaker
Pan, Tingrui	University of California, Davis	Speaker
Pang, Zhibo	ABB Corporate Research	Speaker
Park, Kwang Suk	Seoul National University	Speaker
Pun, Lodge	State Key Lab for Analog and Mixed Signal VLSI, University of Macau	Speaker
Qiu, Shirong	The Chinese University of Hong Kong	Attendee
Quyyumi, Arshed	Emory University	Speaker
Rajput, Kuldeep Singh	Biofourmis	Attendee
Ren, Huamin	Inmeta Consulting AS	Poster Presenter
Ren, Lei	Beihang University	Poster Presenter
Shakoor, Adnan	City University of Hong Kong	Attendee
Shen, Yajing	City University of Hong Kong	Attendee
Shi, Peng	City University of Hong Kong	Speaker
Song, Liang	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	Speaker
Su, Peng	The Chinese University of Hong Kong	Speaker
Subramaniam, Shankar	University of California San Diego	Speaker
Sui, Xiaohong	Shanghai Jiao Tong University	Poster Presenter
Sun, Dong	City University of Hong Kong	Speaker
Tan, Daxin	The Chinese University of Hong Kong	Attendee
Tang, Yu	Huawei	Attendee
Thakor, Nitish V	National University of Singapore	Speaker
Tin, Chung	City University of Hong Kong	Attendee
Wang, Panbing	City University of Hong Kong	Poster Presenter
Wang, Lan	CATIC Wellness Group	Speaker
Wang, May Dongmei	Georgia Institute of Technology / Emory University	Vice Chair
Wang, Lipo	Nanyang Technological University	Speaker
Wang, Lidai	City University of Hong Kong	Speaker
Wang, Tian	Fuzhou University	Attendee
Wen, Guohua	City University of Hong Kong	Poster Presenter
Wu, Dan	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	Poster Presenter

Wu, Hongyan	Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences	Poster Presenter
Xiao, Peng	City University of Hong Kong	Attendee
Xiong, Yang	City University of Hong Kong	Poster Presenter
Xu, Danying	Southern University of Science and Technology	Attendee
Yan, Hong	City University of Hong Kong	Speaker
Yang, Guang-Zhong	Hamlyn Centre, Imperial College London	Speaker
Yang, Qiqi	BGI	Speaker
Yang, Geng	Zhejiang Univ.	Poster Presenter
Yang, Xu	Fuzhou University	Attendee
Yang, Po	Liverpool John Moores University	Speaker
Ye, Fuqiang	Southern University of Science and Technology	Attendee
Yu, Fang	Southern University of Science and Technology	Attendee
Yue, Haibing	City University of Hong Kong	Attendee
Zeng, Yuying	Huawei Technology Ltd	Attendee
Zhang, Yu	Huawei Company	Attendee
Zhang, Yuan-Ting	City University of Hong Kong	Chair
Zhang, Jianwei	University of Hamburg	Speaker
Zhao, Ni	The Chinese University of Hong Kong	Discussion Leader
Zhao, Yue	Northeastern University	Attendee
Zhao, Ling	City University of Hong Kong	Attendee
Zhou, Zhanhong	City University of Hong Kong	Poster Presenter
Zhu, Tingting	University of Oxford	Attendee